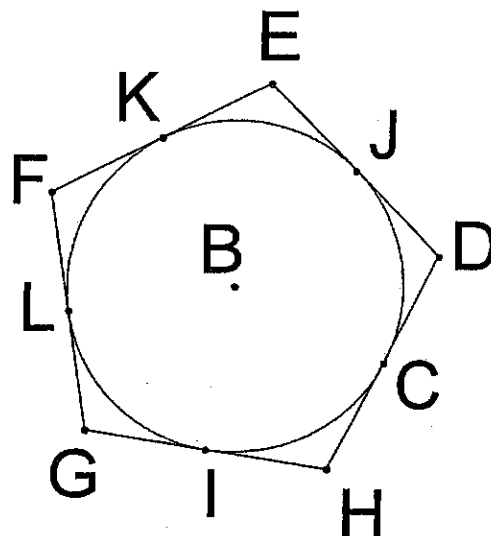


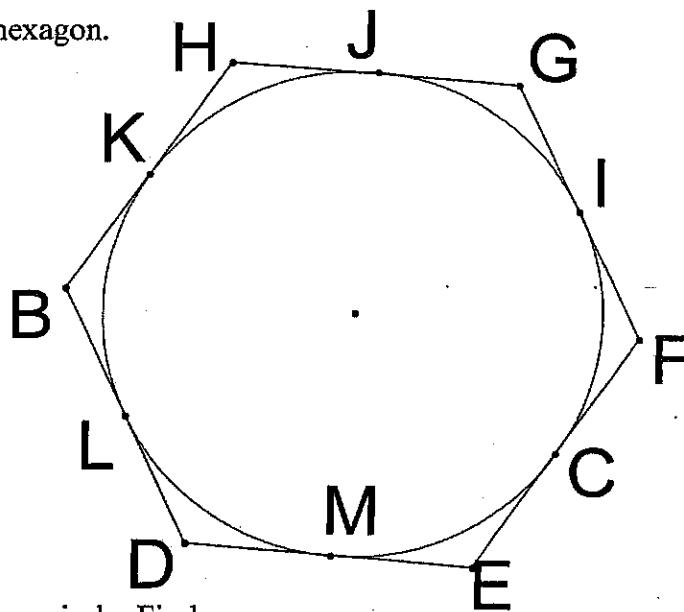
Name _____

Date _____

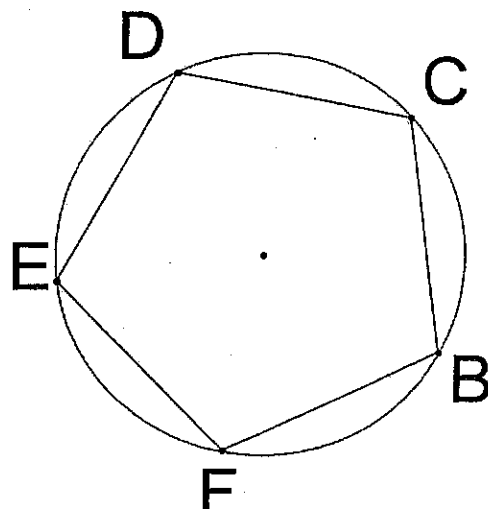
1. _____ A circle is inscribed in a regular pentagon. Find the measure of \widehat{LI} .



2. _____ A circle is inscribed in a regular hexagon. Find the measure of \widehat{KL} .



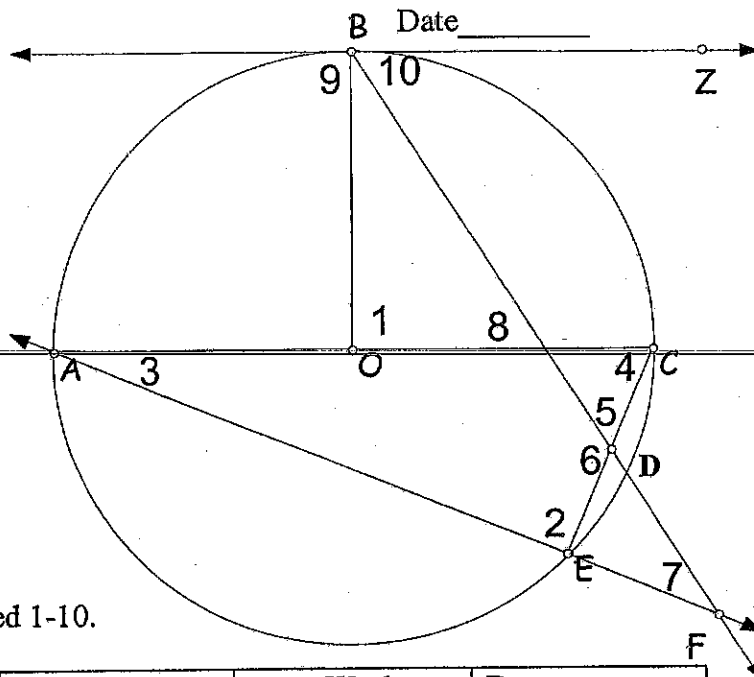
3. _____ A regular pentagon is inscribed in a circle. Find the measure of \widehat{BC} .



Name _____

Date _____

↔
 Given BZ is tangent to circle O
 AC is the diameter
 BC = 90, CD = 30, and DE = 20



Find the measures of angles numbered 1-10.

	Type of Angle	Formula (no #s except $\frac{1}{2}$ should appear)	Your Work (Write in the values here.)	Degree measure of the angle.
$m\angle 1 =$				
$m\angle 2 =$				
$m\angle 3 =$				
$m\angle 4 =$				
$m\angle 5 =$				
$m\angle 6 =$				
$m\angle 7 =$				
$m\angle 8 =$				
$m\angle 9 =$				
$m\angle 10 =$				

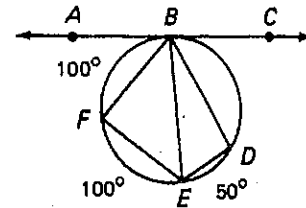
Name: _____

Date: _____

8-8 MORE ANGLES AND ARCS

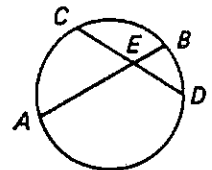
(Pages 378-382)

In the figure at the right, \overline{AC} is tangent to the circle at B. Find the measure of each of the following angles.



1. $\angle ABF$ _____
2. $\angle FBE$ _____
3. $\angle EBD$ _____
4. $\angle CBD$ _____
5. $\angle BFE$ _____
6. $\angle BED$ _____
7. $\angle BDE$ _____
8. $\angle ABE$ _____
9. $\angle FBD$ _____
10. $\angle CBE$ _____
11. $\angle ABD$ _____
12. $\angle FBC$ _____

In the figure at the right, \overline{AB} and \overline{CD} intersect at E. Complete each statement.

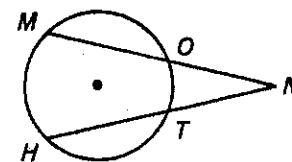


13. If $m\widehat{BD} = 70$ and $m\widehat{AC} = 90$, $m\angle AEC =$ _____.
14. If $m\widehat{BD} = 45$ and $m\widehat{AC} = 105$, $m\angle AEC =$ _____.
15. If $m\widehat{BD} = 68$ and $m\widehat{AC} = 84$, $m\angle DEB =$ _____.
16. If $m\widehat{BD} = 76$ and $m\widehat{AC} = 92$, $m\angle AED =$ _____.

~~17. If $m\widehat{BD} = 60$, $m\widehat{AC} = 110$, and $m\widehat{CEB} = 80$, $m\angle CEB =$ _____.~~

~~18. If $m\widehat{BD} = 54$, $m\widehat{AC} = 114$, and $m\widehat{AED} = 78$, $m\angle AED =$ _____.~~

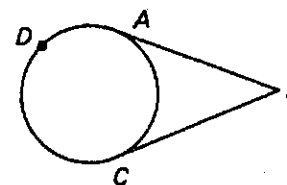
In the figure at the right, secants NM and NH intersect at N. Complete each statement.



19. If $m\widehat{MH} = 80$, $m\widehat{OT} = 40$, $m\angle N =$ _____.
20. If $m\widehat{MH} = 74$, $m\widehat{OT} = 36$, $m\angle N =$ _____.
21. If $m\angle N = 80$, $m\widehat{MH} = 200$, $m\widehat{OT} =$ _____.

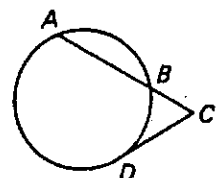
~~22. If $m\angle N = 21$, $m\widehat{OT} = 18$, $m\widehat{MH} =$ _____.~~

In the figure at the right, tangents BA and BC intersect at B. Complete each statement.



23. If $m\widehat{ADC} = 240$, $m\widehat{AC} =$ _____, and $m\angle B =$ _____.
24. If $m\widehat{AC} = 64$, $m\widehat{ADC} =$ _____, and $m\angle B =$ _____.

In the figure at the right, secant CA and tangent CD intersect at C. Complete each statement.



25. If $m\widehat{AD} = 214$ and $m\widehat{BD} = 68$, $m\angle C =$ _____.
26. If $m\angle C = 60$, $m\widehat{BD} = 40$, $m\widehat{AD} =$ _____.

